



Healthcare Demo Scanner

Test User Manual v1

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Document Summary

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Document Description	The User Manual is guideline which includes how to use the Healthcare Demo Scanner. It also includes demo codes which helps to test the mobile application.

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1. Preambulum

This User Manual was prepared to help GS1 Staff to learn and to test the Healthcare Demo Scanner.

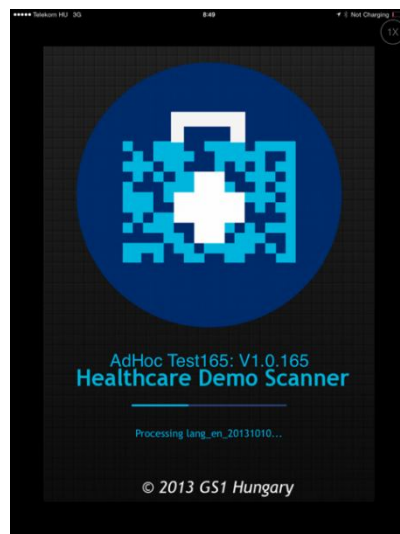
2. First steps in the application

2.1. Login and registration

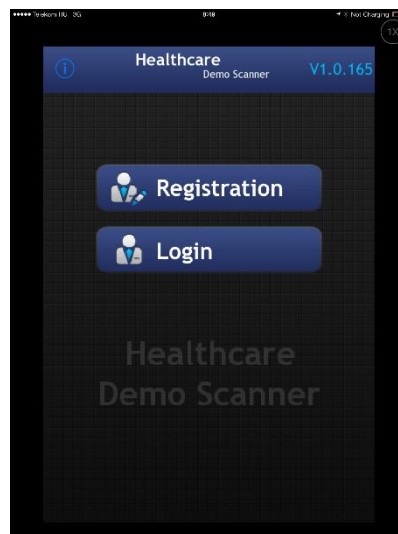
Click on the icon of the application



1. Figure



2. Figure



3. Figure

2.1.1. Registration

You can do the registration from the app or from the website (<http://hcdemo.gs1hu.org/Home/Register>). Persons from GS1 GO who wants to register for the App have to use the given verification code: **Z61t89**

Fill in the given fields (4. Figure).

In the next weeks we are going to redesign the registration process to make it easier for the user.

Persons who were already GS1 Logger for Staff users can use their User name and Password from the LFS application. But they have to know that changing the password in one of the apps doesn't mean an automatic change in the other app, because the user management of the two apps are separate.

The screenshot shows a web-based registration form for 'GS1Logger for Staff'. The form is titled 'Register' and contains several input fields, each with a red asterisk indicating it is mandatory. The fields are: Username, First name, Last name, Password, Confirm password, GS1 Member Organization (a dropdown menu currently showing '-Choose-'), Email address, Phone serial number, Phone GIAI, GSRN, and Verification Code. Below the Verification Code field is a checkbox labeled 'Agree to the terms of the licence'. A blue link 'View Licence' is positioned below the checkbox. A legend indicates that the red asterisk denotes a 'Mandatory field'. At the bottom of the form is a large 'Register' button.

GS1Logger[®] for Staff
© 2011 GS1 Hungary

Register

Username *

First name *

Last name *

Password *

Confirm password *

GS1 Member Organization *

-Choose-

Email address *

Phone serial number

Phone GIAI

GSRN

Verification Code *

☐ Agree to the terms of the licence

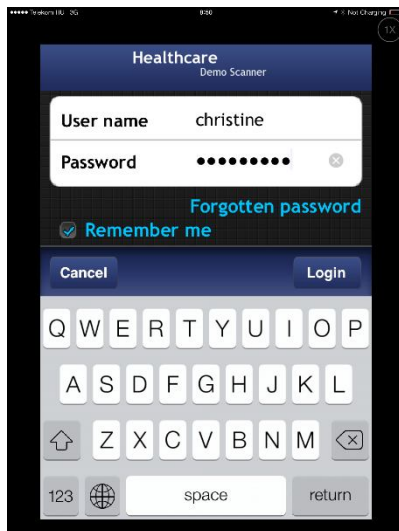
[View Licence](#)

* Mandatory field

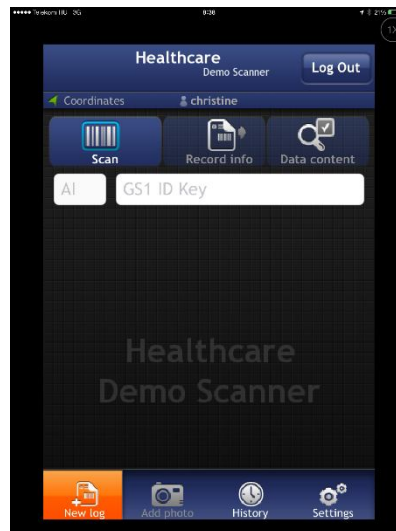
Register

4. Figure

2.1.2. Login



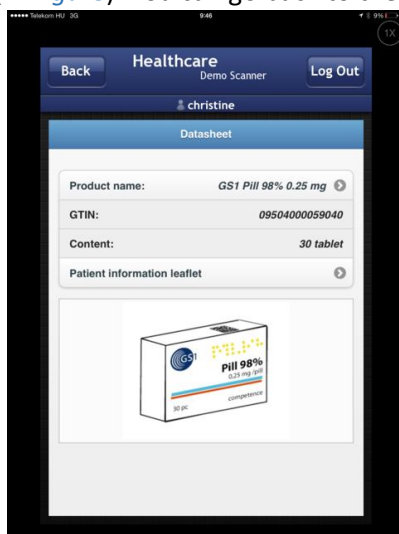
5. Figure



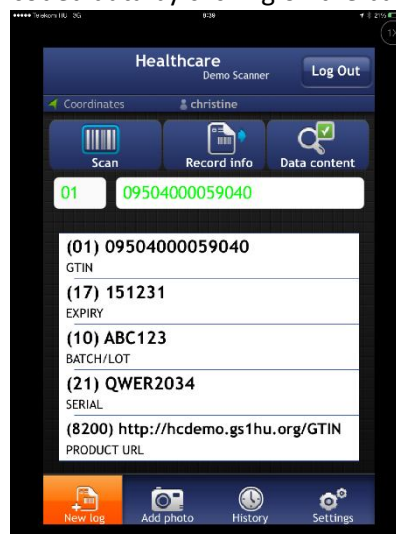
6. Figure

2.2. Scanning

Click on **Scan** and scan the barcode. You can now see the decoded data (8. Figure).
If the data carrier contains GTIN + URL, than it goes automatically to the website (URL/GTIN) (7. Figure). You can go back to the encoded data by clicking on the back button.



7. Figure



8. Figure

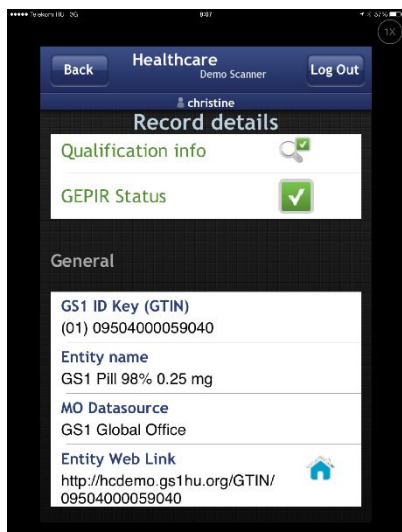
You can go again to the website by clicking on the URL (AI (8200)) field.

2.3. Record info

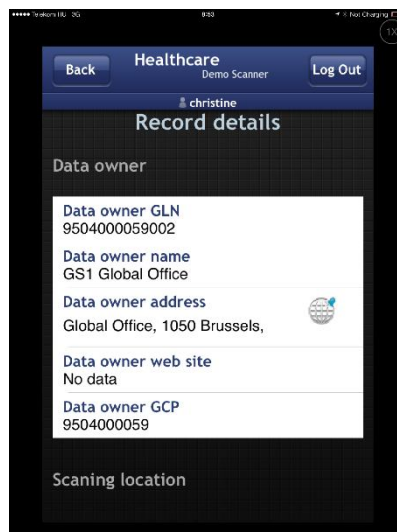
By clicking on Record info (8. Figure) you can get different information regarding the scan:

- **Qualification info:** if the encoded data and data carrier is GenSpec compliant or not (See Section 2.4) (9. Figure)
- **GEPIR Status:** gives you the Gepir information of the scanned ID Key (9. Figure)

- **General:** general information regarding the scanned data according to Gepir information ([9. Figure](#))
- **Data owner:** gives you information about the data owner of the GCP according to Gepir information ([10. Figure](#))

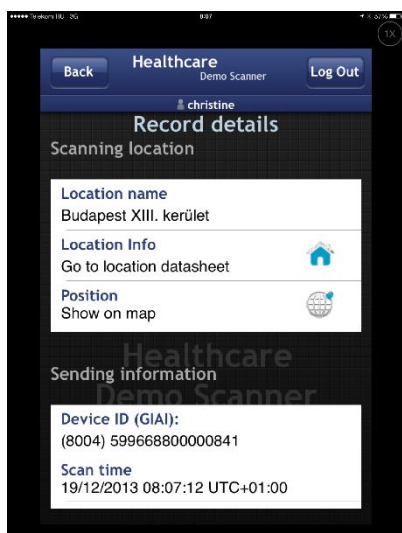


9. Figure

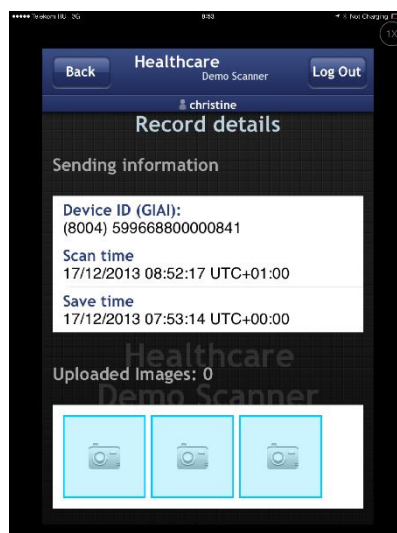


10. Figure

- **Scanning location:** gives you information about the scanning location with the help of Google Maps and a location data sheet ([11. Figure](#))
- **Sending information:** gives you information about the scanning conditions (device, time, etc.) ([12. Figure](#))
- **Uploaded images:** you have the opportunity to upload photos to your scan. This part shows you if and how many images were uploaded ([Section 2.3.2](#)) ([12. Figure](#))
- **Report:** you have the opportunity to send an email to hcdemo@gs1hu.org. This part shows you if an email was sent or not ([Section 0](#)) ([17. Figure](#))



11. Figure



12. Figure

2.3.1. Sending email/message

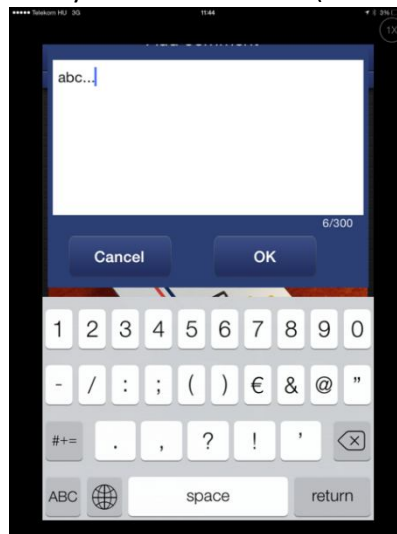
You can send an email to hcdemo@gs1hu.org (further email addresses can be added). In the next improvement the user will have the opportunity to add further email addresses.

You can only send an email when you have taken photos to the scan. You have two options to send an email:

1. You can send an email from the Record details page. Click on **Report** (20. Figure). When you already uploaded a photo you can immediately write your message for the email (14. Figure). When you didn't have uploaded photos you can do it also by clicking on **Report**. You take the photos and by clicking on **Send & Report** (13. Figure) you can write your text message (14. Figure).
2. You can also send an email later from your admin website (See Section 2.7)



13. Figure

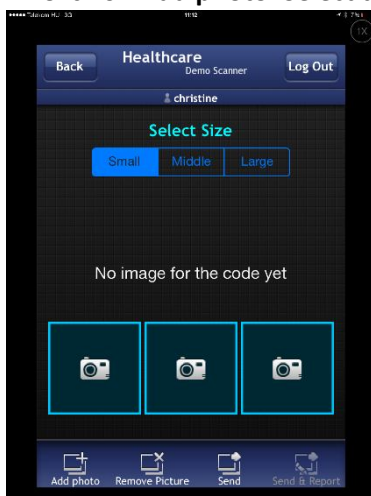


14. Figure

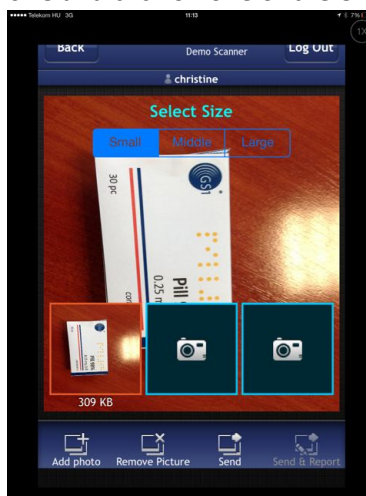
2.3.2. Add photo

You have two options to add photos to a scan.

1. You can add photos after the scan itself when you see all the decoded data (8. Figure). Click on **Add photo**. Select the size and click on one of the empty boxes.



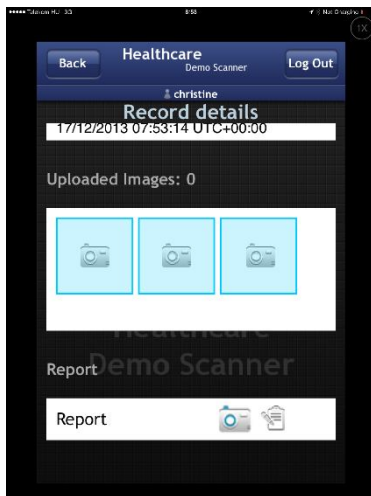
15. Figure



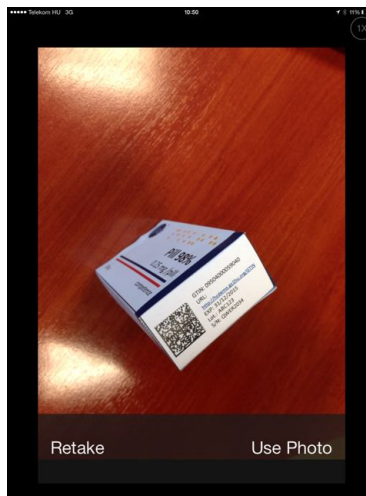
16. Figure

You can add 3 photos. You can also remove pictures. When you are ready click on **Send**.

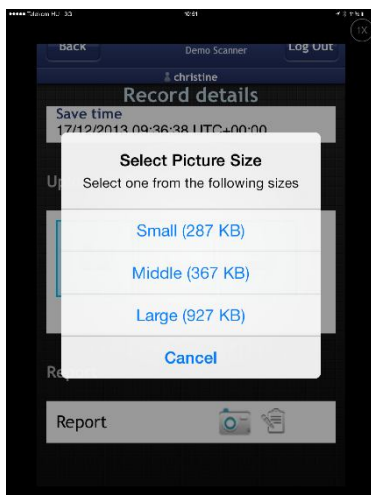
2. You can add photos also in the Record details (12. Figure). Click on one of the empty boxes. Take your photo and choose a picture size. It will upload your photo immediately.



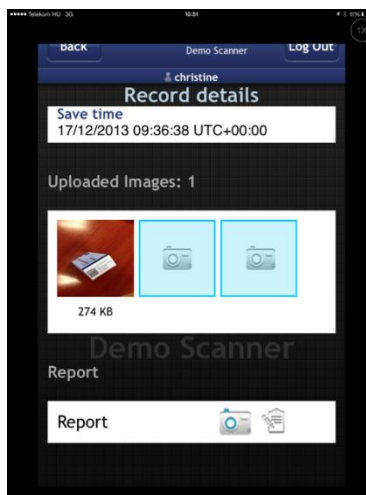
17. Figure



18. Figure



19. Figure



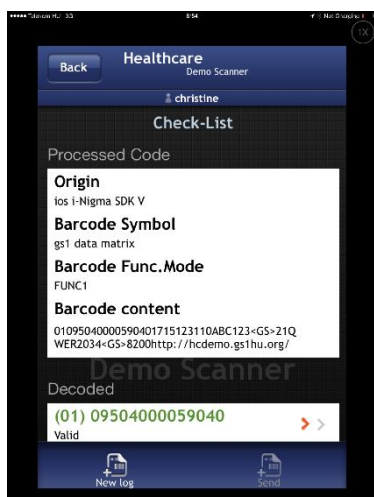
20. Figure

2.4. Data Content

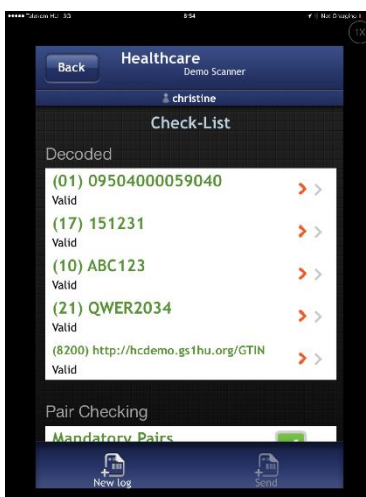
In this section you get back the information if the scanned data carrier and encoded data is a standard data in accordance with the latest published GS1 General Specifications.

You get back information like:

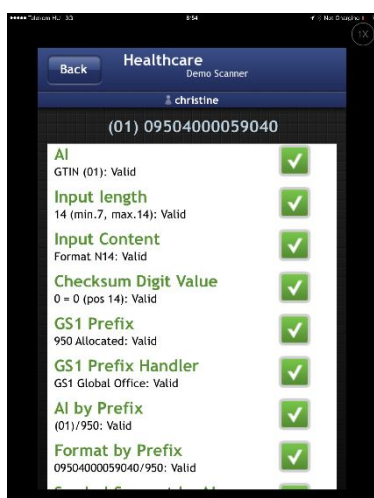
- Processed code: it includes the barcode type, barcode content (21. Figure)
- Decoded data: it includes the decoded AIs and their compliance (22. Figure, 23. Figure)
- Pair checking: it includes the mandatory, the invalid and relation AI pairs and their compliance (24. Figure)
- Symbol Checking: it includes the scanned symbol type and format and their compliance (24. Figure)



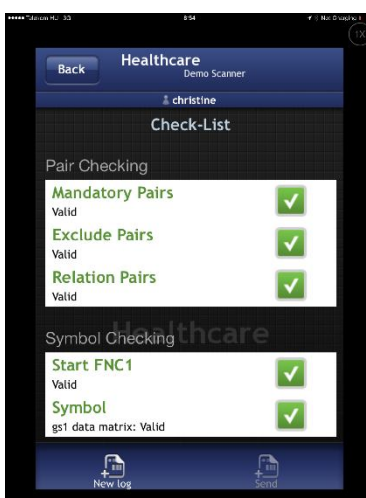
21. Figure



22. Figure



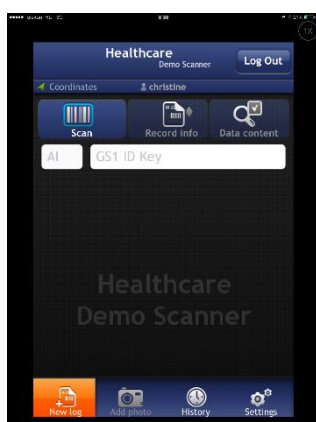
23. Figure



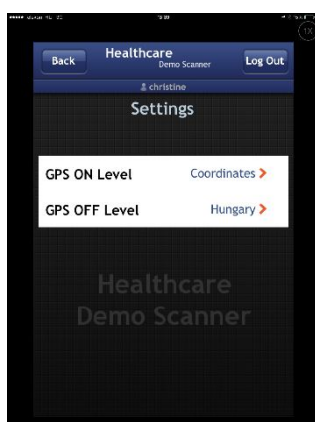
24. Figure

2.5. Settings

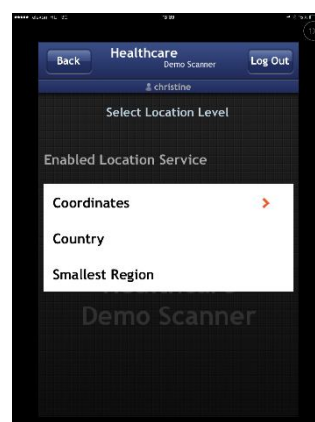
In the **Settings** you can set the scanning location information which will be added to every record. You can set how detailed information will be provided of the scanning location if the **GPS ON** or **OFF**.



25. Figure



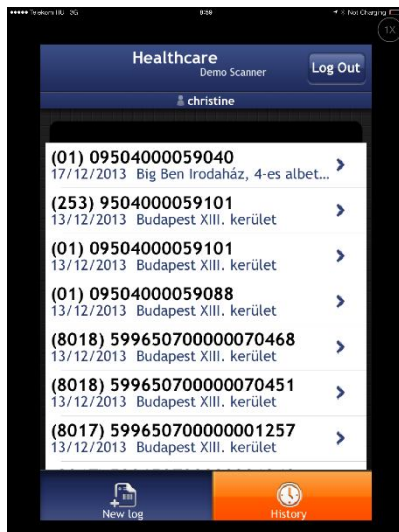
26. Figure



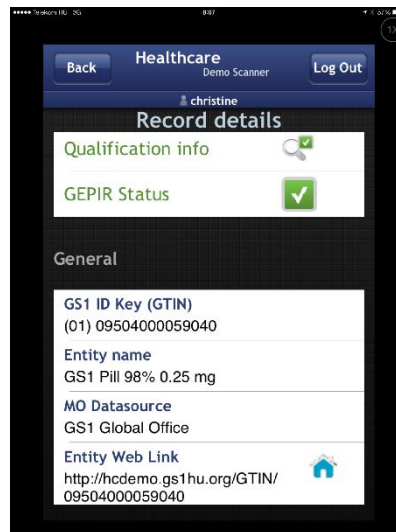
27. Figure

2.6. History

In the History you can find all the previous scans (28. Figure) with all the related information (29. Figure), when you click on one of the records.



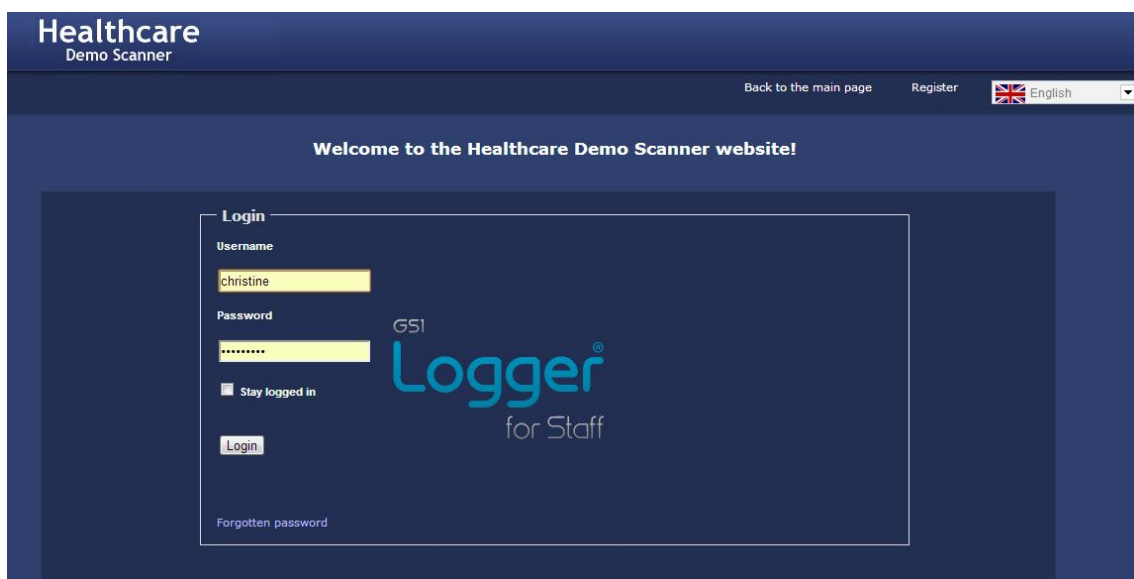
28. Figure



29. Figure

2.7. Admin website

Website address: <http://hcdemo.gs1hu.org/>



30. Figure

You can find all your records and the related information to the scans in a structured way (31. Figure)

You can filter your scans by:

- the ID key
- the date of scan
- code status (if it is conform with GenSpecs)
- the scanning device
- the location of scan
- etc.

Healthcare

Demo Scanner

List

Admin

Translation


Profile

Logged in as:

Christine Hankó

Change password

Logout

 English

Rows per page: 10

Code status: - Any -

From:

To:

Duplication filter type: None

GS1 ID key:

Scanning device (GIAI):

Results with images only:

Country: - Any -

Hungary

Albania

Algeria

Argentina

Armenia

AI: - Any -

-

00 - SSCC

01 - GTIN

02 - CONTENT

10 - BATCH/LOT

Errors: - Any -

Invalid AI





Invalid code

Invalid length

Invalid format

Invalid checksum



Filter

Data content	Description Link	Data owner GLN _{Org}	Location of scan Name / GLN _{Loc}	Scan time	Felhasználó / Leolvasás eszköze GSRN / GIAI	Logger (GenSpec) status	
(00) 095040000590007506	SSCC	GS1 Global Office 9504000059002 Global Office, 1050 Brussels, Avenue Louise 326	Budapest XIII. kerület (414) 5990900045124	12/19/2013 8:23 AM UTC +01:00	Christine Hankó (GS1 Hungary) (8017): 599668800000827587 Apple iPad 3 (8004) 599668800000841	Standard	
(01) 09504000059040 (17) 151231 (10) ABC123 (21) QWER2034 (8200) http://hcdemo.gs1hu.org/GTIN	GTIN GS1 Pill 98% 0.25 mg	GS1 Global Office 9504000059002 Global Office, 1050 Brussels, Avenue Louise 326	Budapest XIII. kerület (414) 5990900045124	12/19/2013 8:22 AM UTC +01:00	Christine Hankó (GS1 Hungary) (8017): 599668800000827587 Apple iPad 3 (8004) 599668800000841	Standard	
(8017) 599650700000001240	GSRN Service Provider Sandra Nurse	GS1 MAGYARORSZÁG Nonprofit Zrt. 5990000000009 Hungary, 1139 BUDAPEST, FÁY U. 1/B.	Budapest XIII. kerület (414) 5990900045124	12/19/2013 8:22 AM UTC +01:00	Christine Hankó (GS1 Hungary) (8017): 599668800000827587 Apple iPad 3 (8004) 599668800000841	Standard	
(8017) 599650700000001233	GSRN Service Provider Dr. Specimen Jones	GS1 MAGYARORSZÁG Nonprofit Zrt. 5990000000009 Hungary, 1139 BUDAPEST, FÁY U. 1/B.	Budapest XIII. kerület (414) 5990900045124	12/19/2013 8:22 AM UTC +01:00	Christine Hankó (GS1 Hungary) (8017): 599668800000827587 Apple iPad 3	Standard	

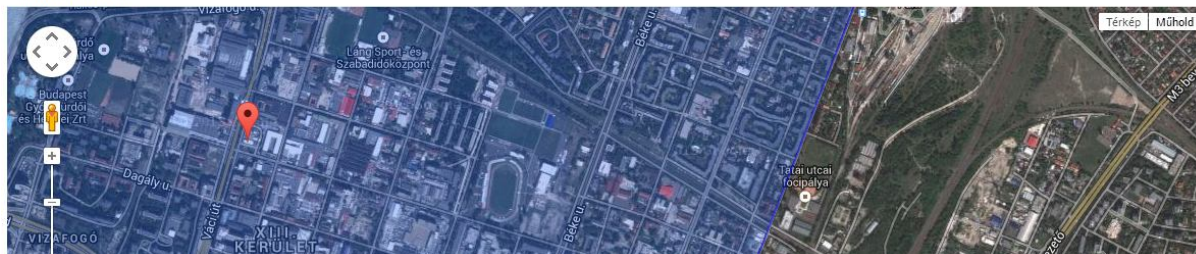
31. Figure

By clicking on the ID key (when it is blue) you can get to the entities website (which URL address is provided through Gepir or Logger Server). You can also get to the website when you go with the mouse over the **Description Link** column.

You can see the detailed information of the scans (32. Figure) when you click on the info icon in the last cell.

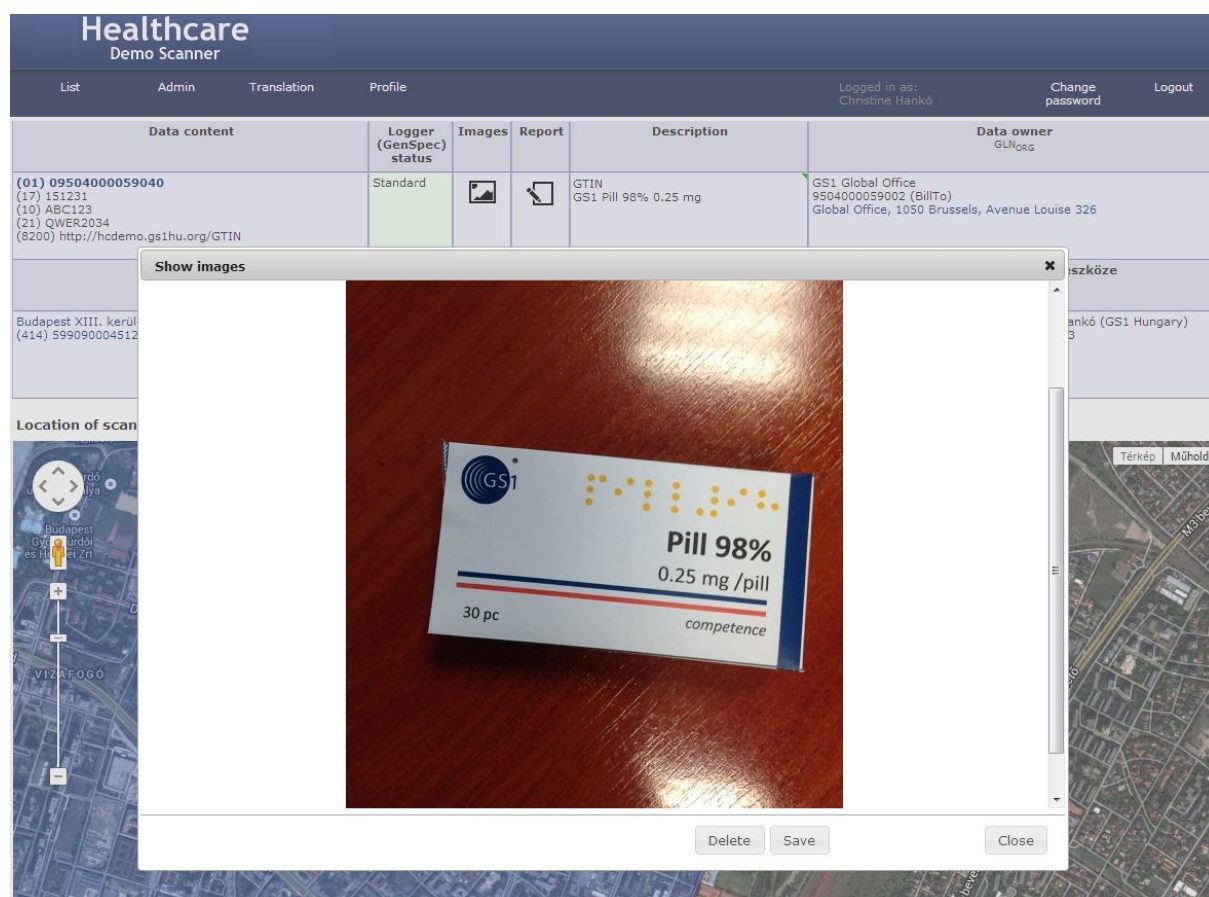
Healthcare Demo Scanner							
List	Admin	Translation	Profile	Logged in as: Christine Hankó		Change password	Logout
Data content	Logger (GenSpec) status	Images	Report	Description	Data owner GLN _{Org}		
(01) 09504000059040 (17) 151231 (10) ABC123 (21) QWER2034 (8200) http://hcdemo.gs1hu.org/GTIN	Standard			GTIN GS1 Pill 98% 0.25 mg	GS1 Global Office 9504000059002 (BillTo) Global Office, 1050 Brussels, Avenue Louise 326		
Location of scan Name / GLN _{Loc}			Scan time Save time		Felhasználó / Leolvasás eszköze GSRN / GIAI		
Budapest XIII. kerület (414) 5990900045124			Latitude: 47.538257 Longitude: 19.069721 Altitude: 147 Horizontal Accuracy: 5 Vertical Accuracy: 6 (254) WDT7x9J3yzQ3H0506		(8017): 599668800000827587 (8004) 599668800000841 Christine Hankó (GS1 Hungary) Apple iPad 3 iPhone OS 7.0.4 Healthcare Demo Scanner 1.0.167		

Location of scan

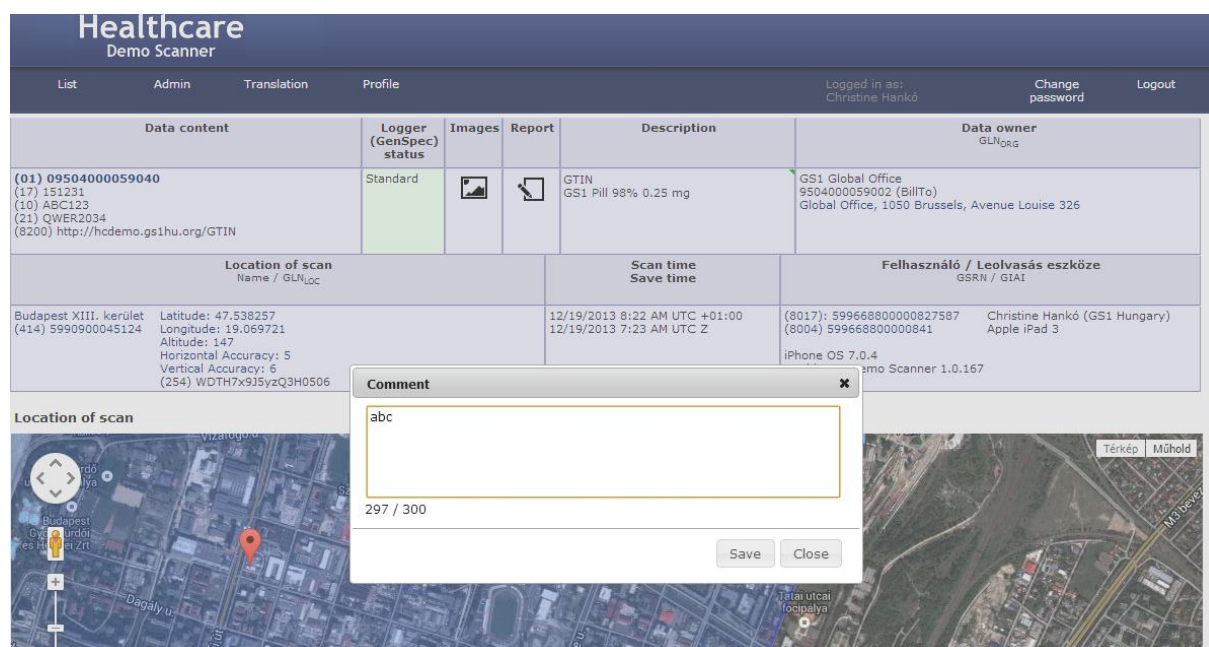


32. Figure

You can see the attached picture to every scan (if a picture was taken to the given scan you can see a little picture in the image column) and also if a report was sent or not (the contour of the notepad is green when a report was sent and black when you even have the opportunity to send). By clicking on the picture you can see which pictures were taken (33. Figure). If you want to send a report later, you can do it by clicking on the given notepad in the report column (34. Figure).



33. Figure



34. Figure

3. Demo test data

For easier testing we set up some demo databases with demo data to show how it can work. The following sections shows you what kind of information you can get back by scanning the example codes.

Prepared Demo test entities with master data background:

Entity	Example	Note
Product	Pharmaceutical	with product hierarchy information
	Medical device	
Location	Hospital	
	Hospital Main Building	
	Warehouse	
	Surgery Department	
	Bed A	
	Operating room	
	Waiting Hall	
	Laboratory	
	Pharmacy	
Document	Patient information leaflet	for GS1 Pill
	Warranty card	for asset
	Curriculum Vitae	for doctor
	Patient record	for patient
	Prescription	for patient and pharmaceutical prescribed by the doctor
Asset	Washing machine	with warranty card
	Medical transport trolley	
	Medical waste container	
Person	Doctor	with CV
	Nurse	
	Pharmacist	
	Patient	with patient record

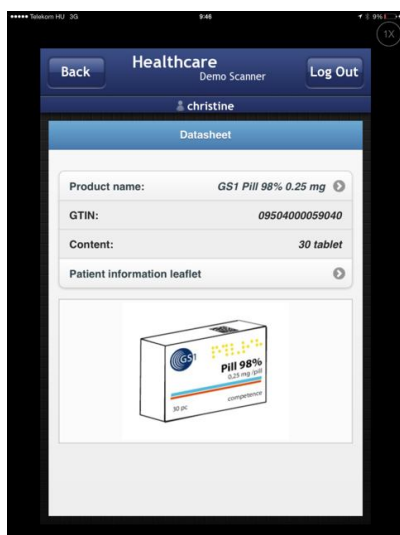
3.1. Product

GS1 Pill 98% - Secondary packaging

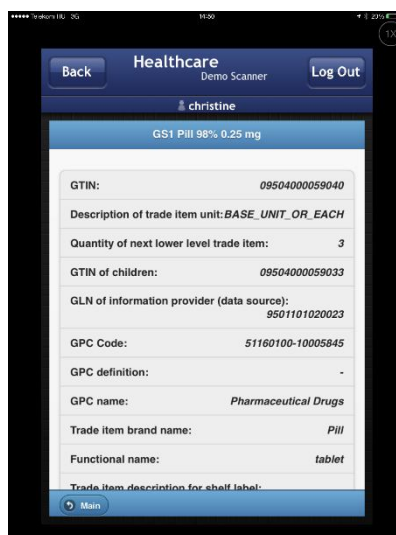


(01)09504000059040
 (17)151231
 (10)ABC123
 (21)QWER2034
 (8200)http://hcdemo.gs1hu.org/GTIN

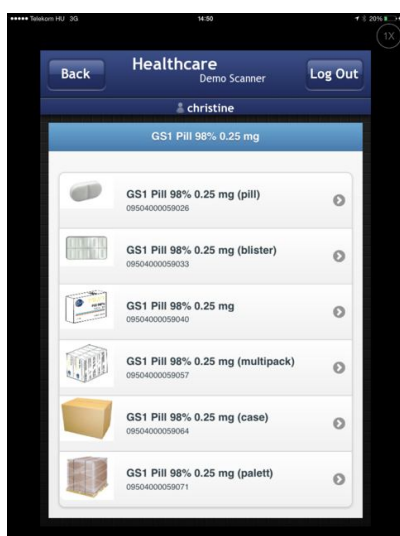
1. Scan the given code
2. The Demo brings you to the product website (35. Figure) where you can find the patient information leaflet (35. Figure, 38. Figure) and also the master data (36. Figure) of the product. You can also get to the product hierarchy (37. Figure) from the product master data sheet (last row). You can get through the product hierarchy page to the other hierarchy level master data information.



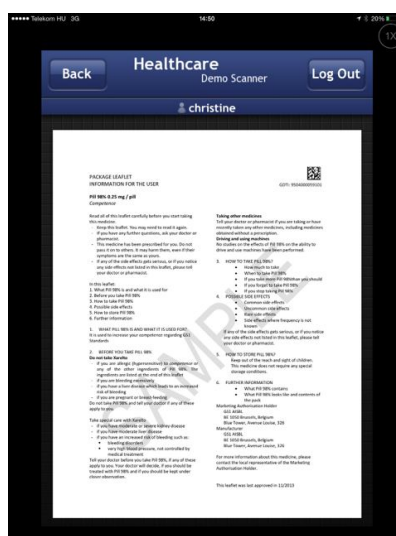
35. Figure



36. Figure

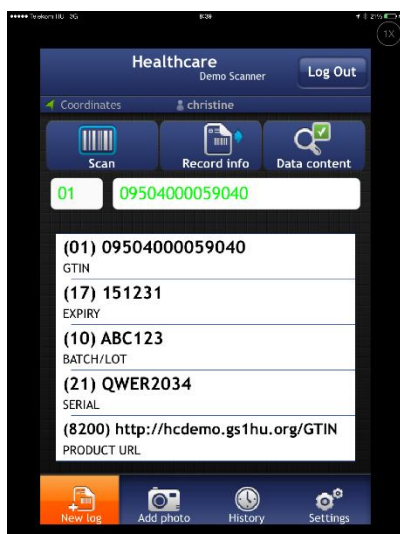


37. Figure

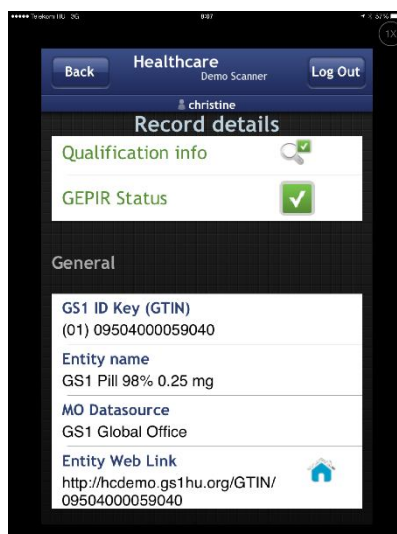


38. Figure

3. By clicking on the Back button you can get back to the App, where you can find the decoded data (39. Figure). You can go again to the product website by clicking on the URL address. You can also go to the record details where you can find the **Entity Web Link** (40. Figure) which also brings you to the website back.



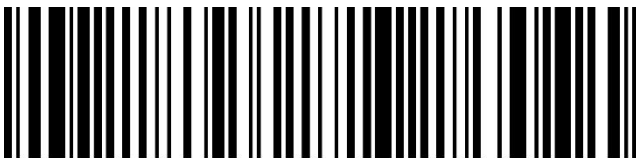




39. Figure



40. Figure

Other examples:

Product – hierarchy level	Code
GS1 Pill 98% - Pill	 (8006)095040000590330310 (17)151231 (10)ABC123 (21)QWER2034
GS1 Pill 98% - Blister	 (01)09504000059033 (17)151231 (10)ABC123 (21)QWER2034
GS1 Pill 98% - Case	 (00) 0 9504000 059000658 5
GS1 Pill 98% - Pallett	 (00) 0 9504000 059000750 6

Product – hierarchy level	Code
Surgical Scissors	 (01)09504000059088(21)9378NG

The figures with the codes can be found in the Annex.

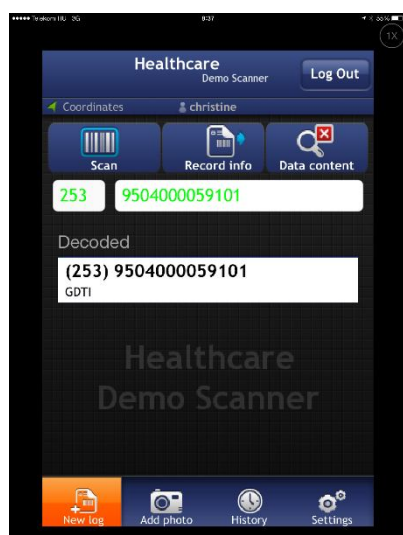
3.2. Document

Patient information leaflet

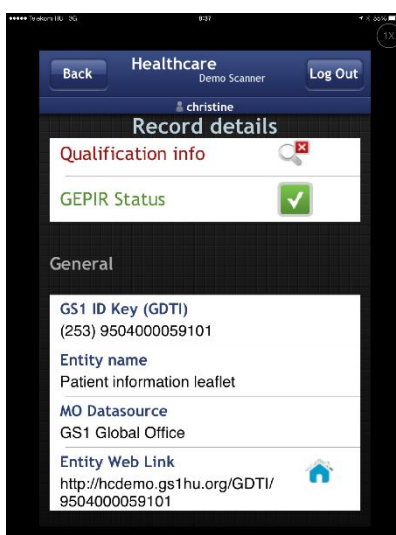


(253)9504000059101

1. Scan the given code
2. You get the encoded data ([41. Figure](#)). When you click on **Record info** you go to the record details where you can find the **Entity Web Link** ([42. Figure](#)). By clicking on it you can go to the demo data of this entity ([43. Figure](#)). There you can go to the master data of the entity ([44. Figure](#)) and you can also open in pdf the document ([45. Figure](#)).
3. With the Back button you can go back to the **Record details** ([42. Figure](#)).



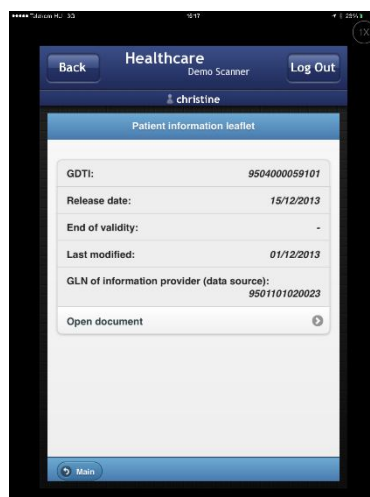
41. Figure



42. Figure



43. Figure



44. Figure



45. Figure

Other examples:

Document	Code
Warranty card	 (253)9504000059118
Curriculum Vitae	 (253)5996507000016000569
Patient record	 (253)5996507000023000009875  (253)5996507000023000009876
Prescription	 (253)5996507000030000125984

The figures with the codes can be found in the Annex.

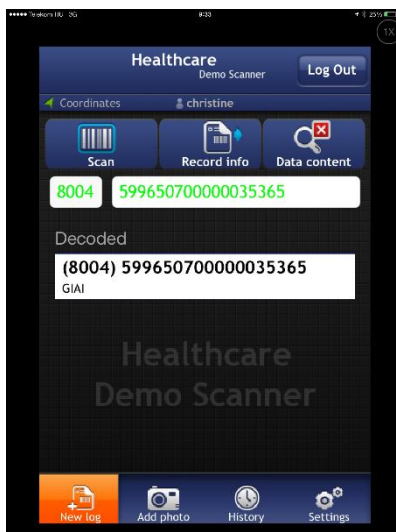
3.3. Asset

Washing machine

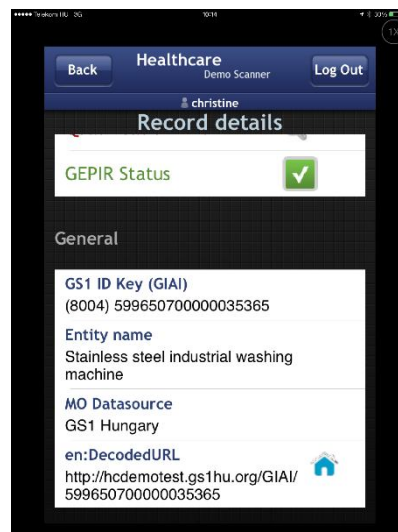


(8004)599650700000035365

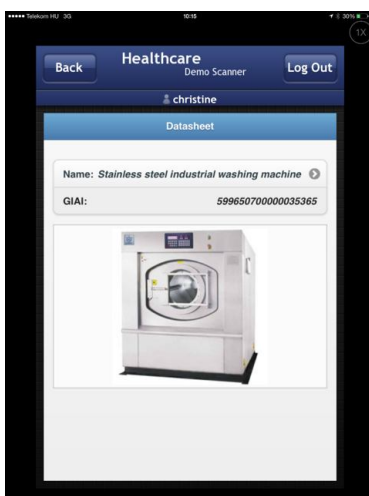
1. Scan the given code
2. You get the encoded data (46. Figure). When you click on **Record info** you go to the record details where you can find the **Entity Web Link** (47. Figure). By clicking on it you can go to the demo data of this entity (48. Figure). There you can go to the master data of the entity (49. Figure) and you can also open related documents in pdf. In some cases there are related locations to the given entity which are shown by clicking on the location (50. Figure).
3. With the Back button you can go back to the **Record details** (47. Figure).



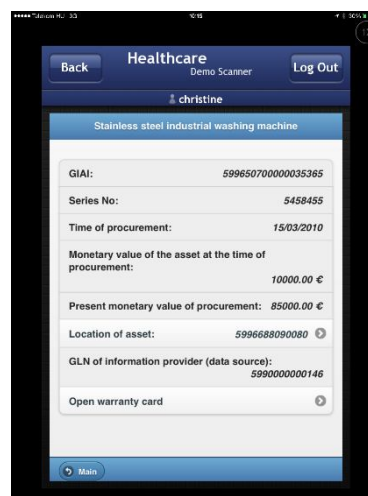
46. Figure



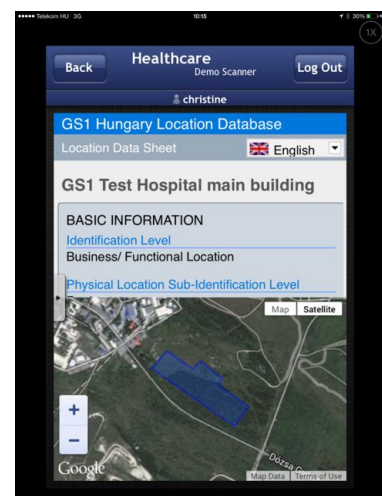
47. Figure



48. Figure






49. Figure



50. Figure

Other examples:

Asset	Code
Medical transport trolley	 (8004)599650700000035366
Medical waste container	 (8003)05996507000047
Surgical Scissors	 (01)09504000059088(21)9378NG

The figures with the codes can be found in the Annex.

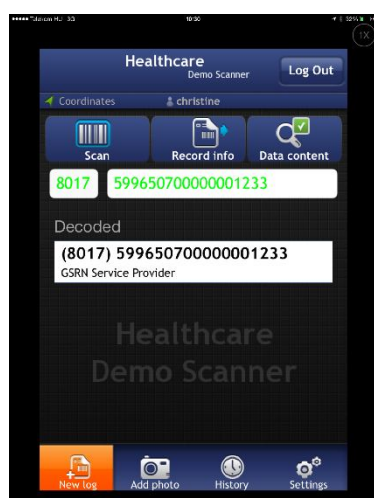
3.4. Person

Doctor

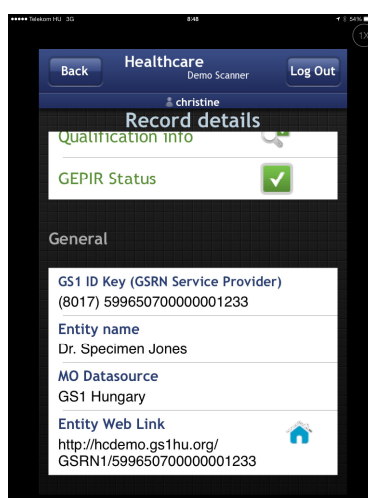


(8017)599650700000001233

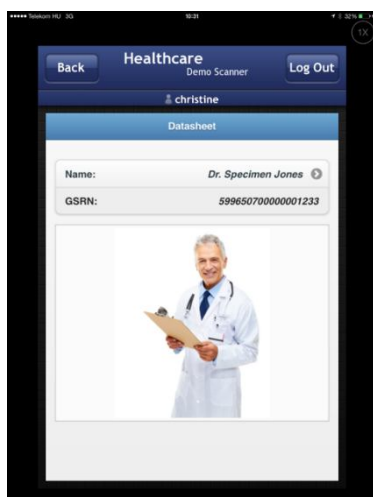
1. Scan the given code
2. You get the encoded data (51. Figure). When you click on **Record info** you go to the record details where you can find the **Entity Web Link** (57. Figure). By clicking on it you can go to the demo data of this entity (53. Figure). There you can go to the master data of the entity (54. Figure) and you can also open related documents in pdf (55. Figure). In some cases there are related locations to the given entity which are shown by clicking on the location.
3. With the Back button you can go back to the **Record details** (53. Figure).



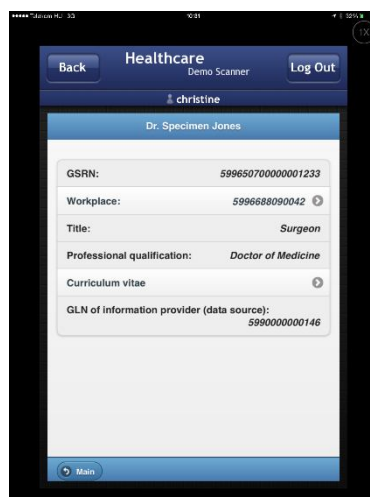
51. Figure



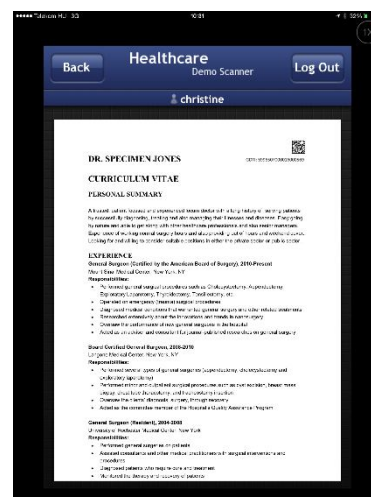
52. Figure



53. Figure







54. Figure



55. Figure

Other examples:

Person	Code
Nurse	 (8017)599650700000001240
Pharmacist	 (8017)599650700000001257
Patient	 (8018)5996507000000070451  (8018)5996507000000070468

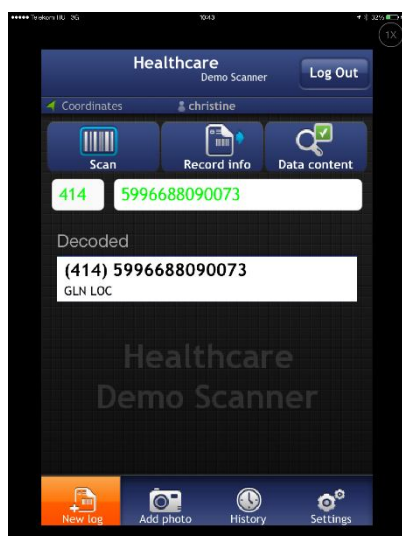
The figures with the codes can be found in the Annex.

3.5. Location

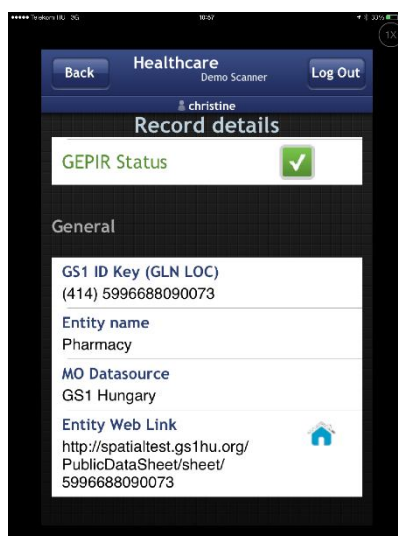
Pharmacy



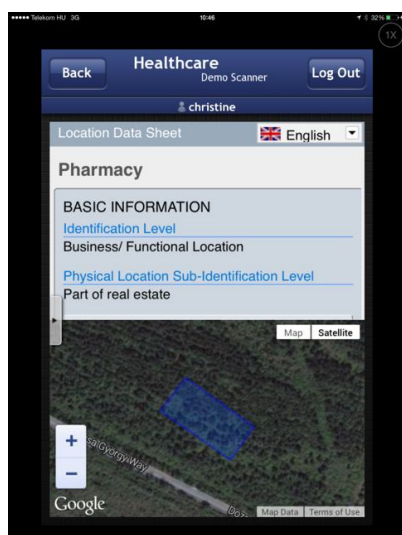
1. Scan the given code
2. You get the encoded data (56. Figure). When you click on **Record info** you go to the record details where you can find the **Entity Web Link** (57. Figure). By clicking on it you can go to the location data sheet (58. Figure, 59. Figure). There you can see the master data of the entity.
3. With the Back button you can go back to the **Record details**.



56. Figure



57. Figure











58. Figure



59. Figure

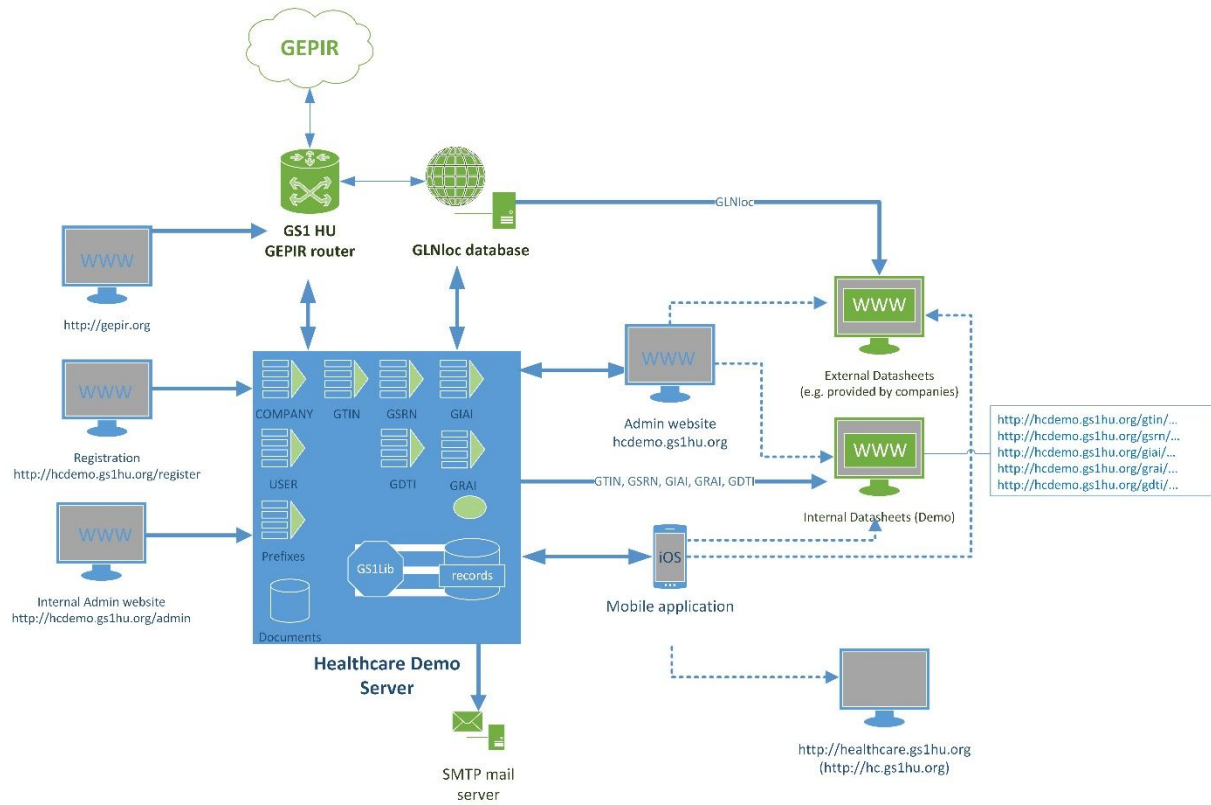
Other examples:

Location	Code
Hospital main premises	 (414) 5996688 09000 4
Hospital Main building	 (414) 5996688 09008 0

Location	Code
Warehouse	 (414) 5996688 09001 1
Surgery Department	 (414) 5996688 09002 8
Surgery Department, Bed A	 (414) 5996688 09003 5
Surgery Department, Operating room	 (414) 5996688 09004 2
Waiting Hall	 (414) 5996688 09005 9
Laboratory	 (414) 5996688 09006 6

The figures with the codes can be found in the Annex.

4. Healthcare Demo System architecture



60. Figure

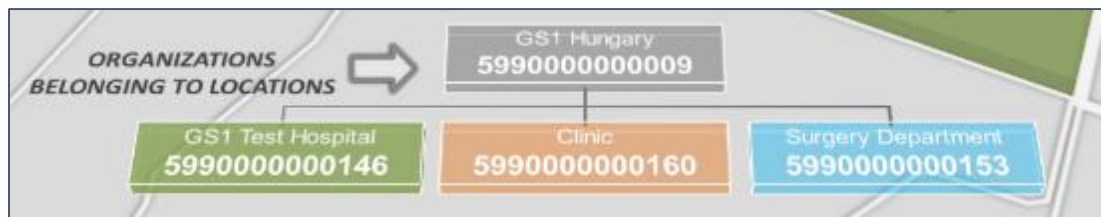
You can reach product (entity) datasheets in different ways:

- Directly through the encoded data (AI (01)+(8200)) by **scanning the code**
- Indirectly, using the **mobile application** or **Admin website**, through URLs provided by
 - GEPIR (item URLs provided by brand owners)
 - Logger Server (datasheets based on internal demo database, or external URLs (e.g. location datasheets)) – the server is configured to provide the URL related to a specific GS1 ID Key

5. Location database

Accurate and reliable location data is very important to track and trace events and actions in healthcare processes. For Healthcare Demo Scanner application GS1 Hungary set up a model in which there are 3 organizations and 9 locations belong to them. The organizations are the following:

- GS1 Test Hospital (organization)
- GS1 Test Surgery Department (operating division)
- GS1 Test Clinic (operating division)



61. Figure

All organizations are GS1 partners and have GLNs assigned by GS1 Hungary from the 599000 prefix. Master data of the organizations were recorded in GS1 Hungary's data store, which is a special kind of GLN registry for organizations. It is connected to GEPIR, so all of the data of the 3 organizations is available via GEPIR.

Search GLN

```

UNH=I+PROD:1:96A:EN:EA0021
SCH=11E:9+201+21-
DTM=100+20130909:1000-
NAD=3:A:5422331173459:9'-
NAD=4:Y:5432154111113:9'-
LTN=1:541770000100:EN'-
DTM=160:2:803'-
HAN=ONG'-

```

As the name implies, the GLN is the GS1 Identification Key for Locations. The GLN can be used to identify physical locations and legal entities where is a need to retrieve pre-defined information to improve the efficiency of communication with the supply-chain. Locate enterprise by Global Location Number that was communicated in EDI message, Order, Invoice, etc document.

GLN
5990000000146

Exact address of GLN
Owner of GLN

Search

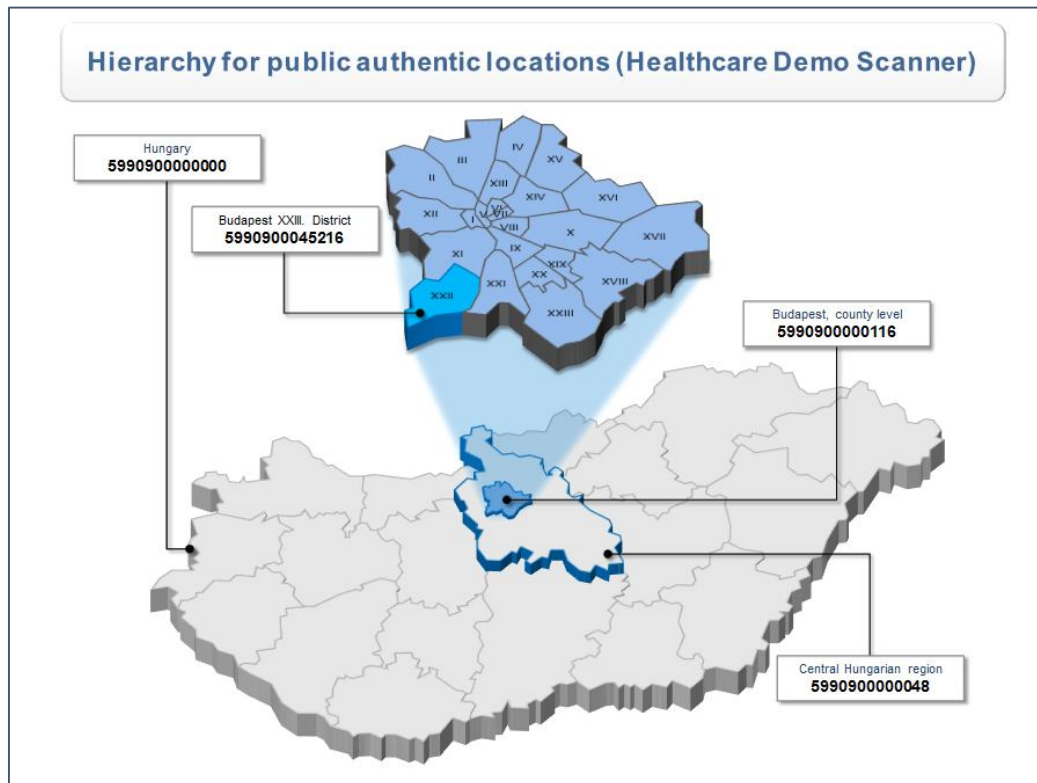
Responder GLN: 5990000000122 , Number of results: 1 , Return code: No Error (0)

GLN	Company/Location	Contact	Last Change	GCP	Global Location Numbers	Provider GLN
5990000000146	GS1 Test Hospital, 1224. Budapest György utca 105.	hanko@gs1hu.org +36-1-237-7271	12/5/2013	599000		5990000000009

62. Figure

In the model for Healthcare Demo Scanner application there are 5 locations coming from public authentic source. The hierarchy for public authentic locations is the following:

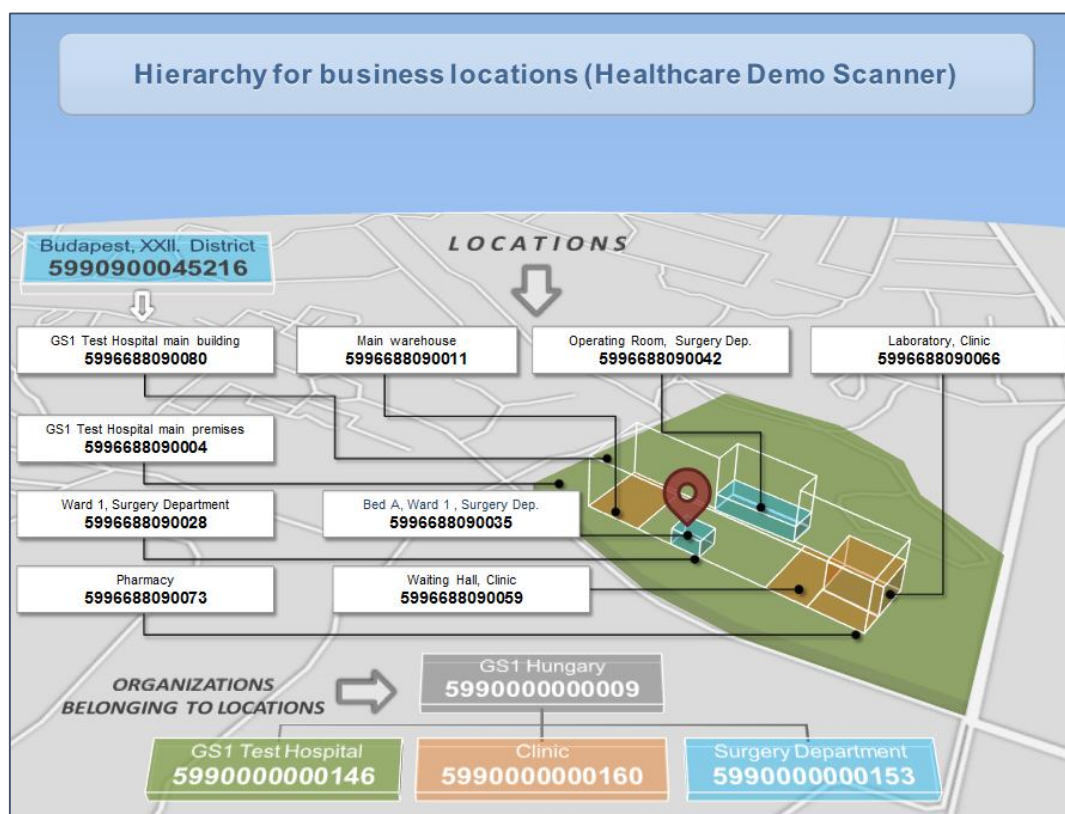
- 1) Hungary (country)
- 2) Central Hungarian (region)
- 3) Budapest capital (county)
- 4) Budapest (sub region)
- 5) Budapest, District XXII. (settlement)



63. Figure

GS1 Test Hospital main premises (site and all the buildings) can be found in Budapest District XXII. There are 9 locations belonging to GS1 Test Hospital or its operating divisions (GS1 Test Surgery Department, GS1 Test Clinic). These locations also have their special hierarchy:

- GS1 Test Hospital main premises
 - GS1 Test Hospital main building
 - Main warehouse
 - Pharmacy
 - Ward 1, Surgery Department
 - Bed A, Ward 1, Surgery Department
 - Operating Room, Surgery Department
 - Waiting Hall, Clinic
 - Laboratory, Clinic



64. Figure

All the locations are recorded in GS1 Hungary's Location Database which is a data store for physical locations which location data could be public authentic data (eg. Budapest District XXII.) or business data (main warehouse). Locations data base is a solution based on GS1 and other international standards and authentic sources in order to ensure accurate and reliable location data for stakeholders of any kind of supply chain at real time.

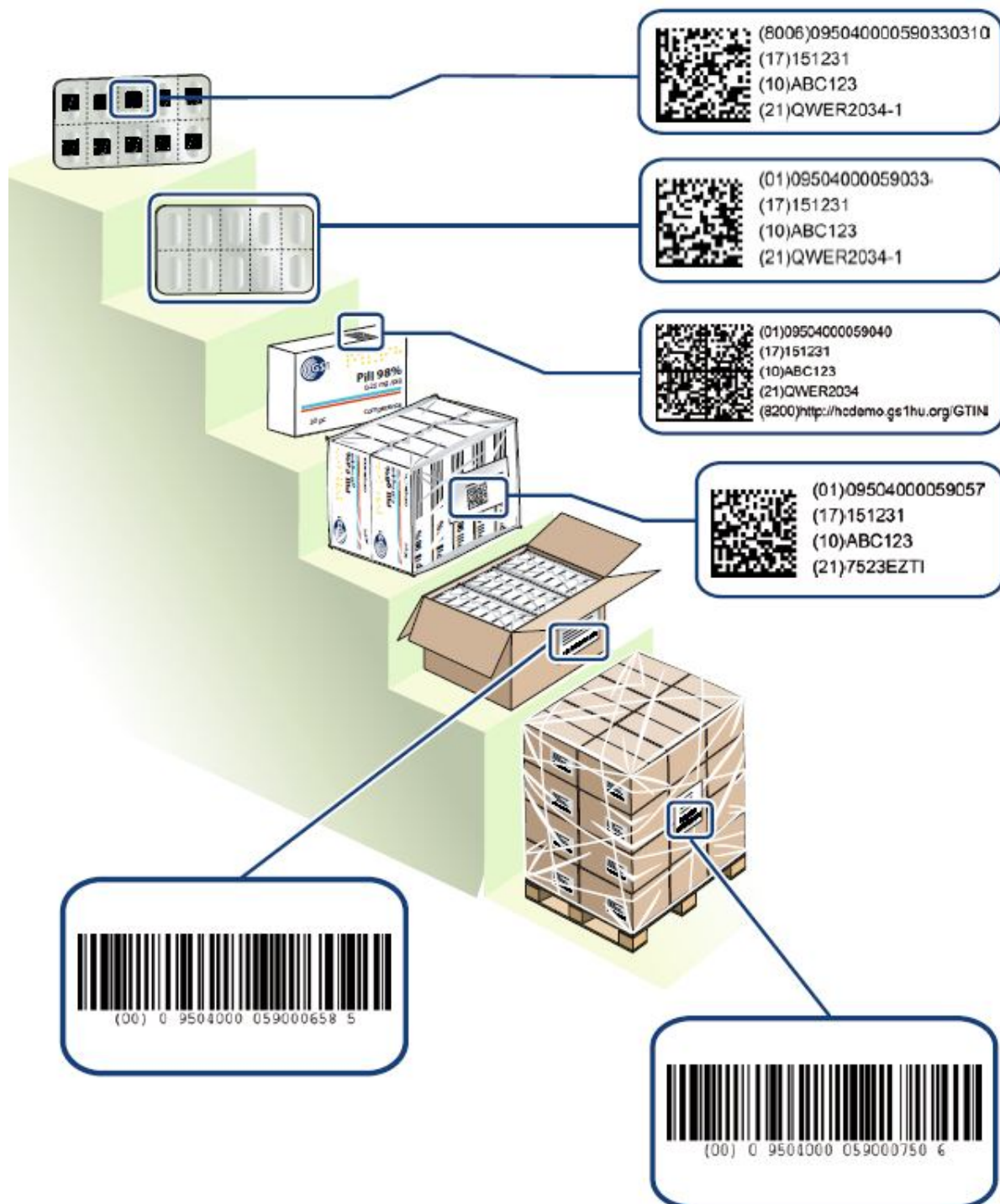
Location and organization related info on Location Data Sheet

65. Figure

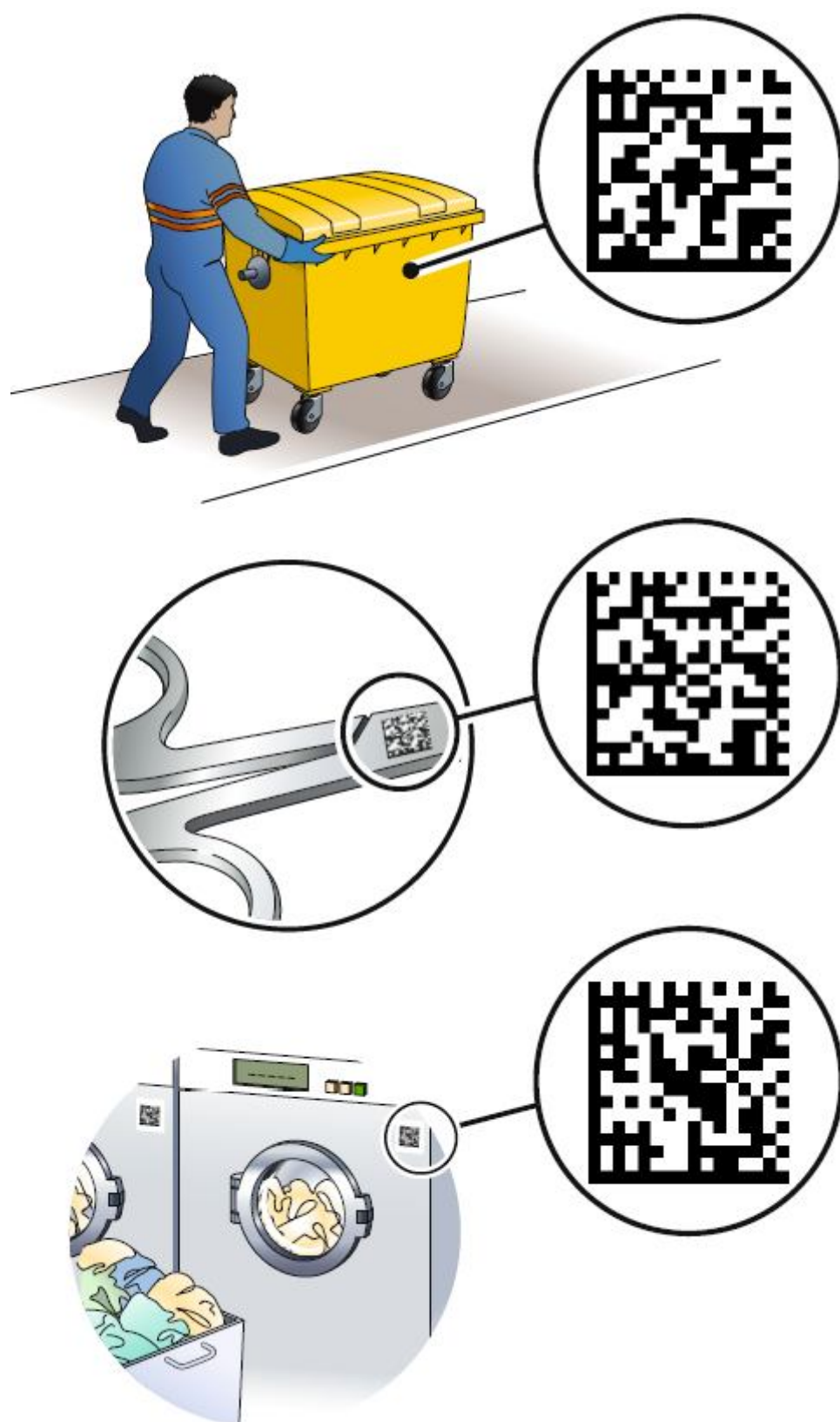
Location database provides accessibility to other master data sets (organizations, locations, products, documents). The example above shows that how can we get organizational data regarding to a certain place. The room of the Laboratory belongs to the GS1 Test Clinic, which is an operational division at GS1 Test Hospital. The Location Data Sheet of the Laboratory contains a 'Party Information' section, in which we can get the most important contact information of Clinic that operates the given physical location.

APPENDIX 1 - Figures

Product hierarchy



Assets



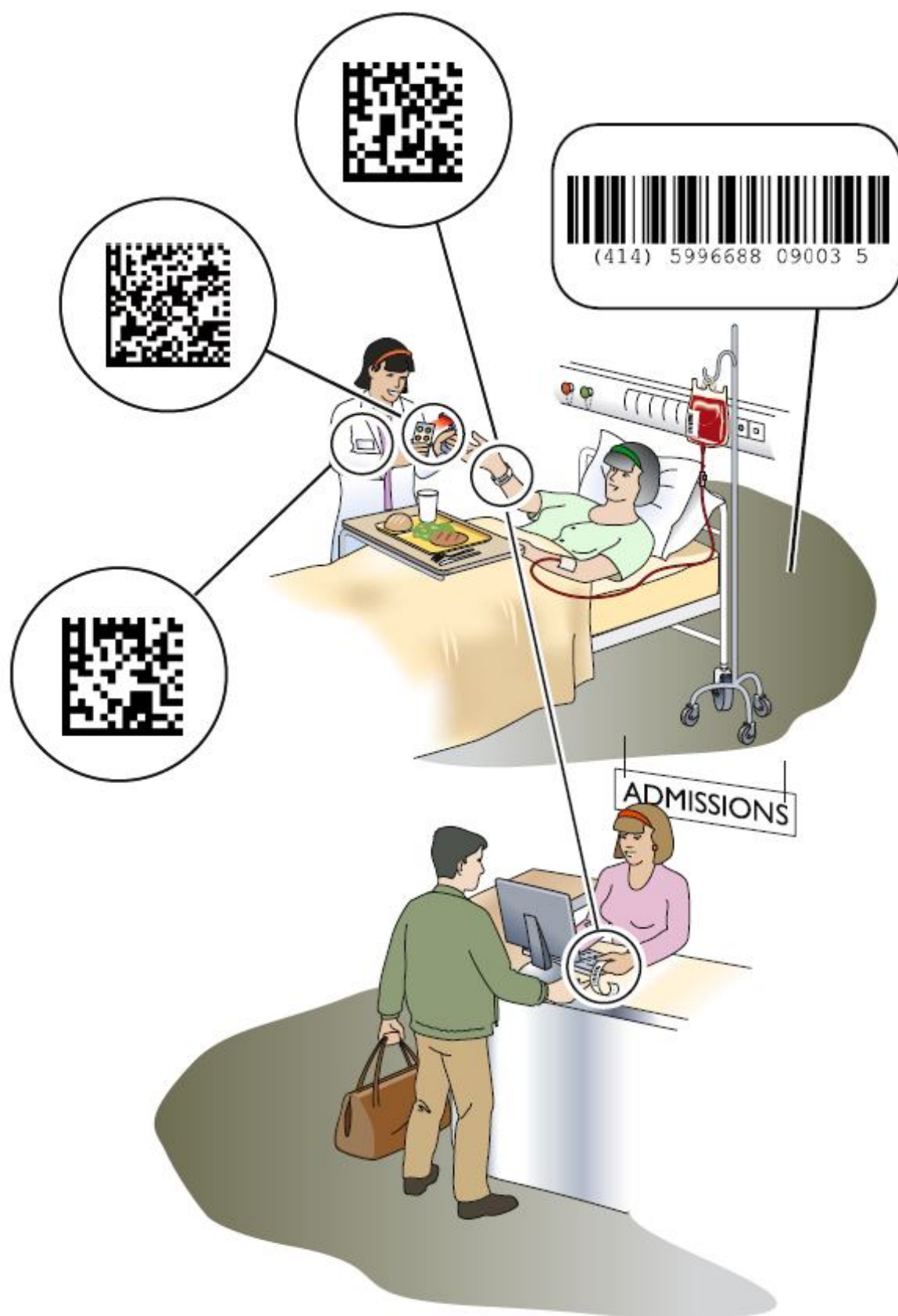
Manufacturer



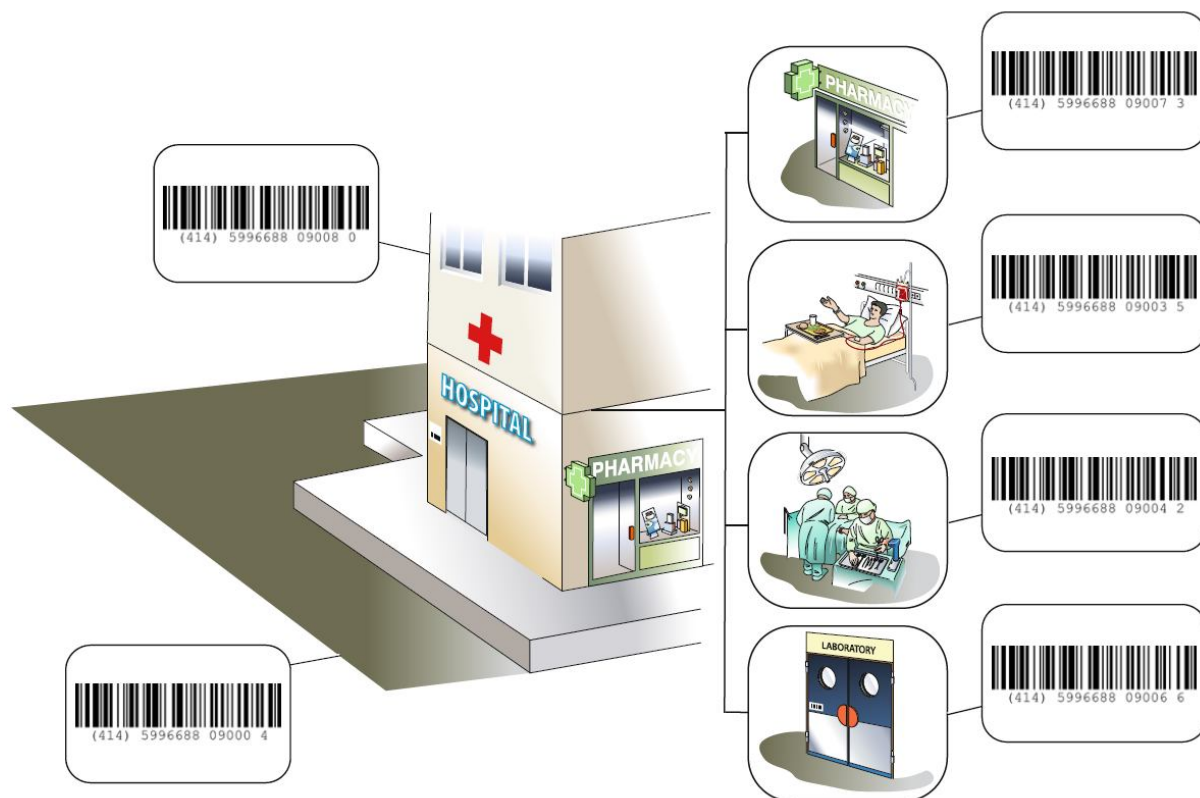
Pharmacy



Hospital



Locations



APPENDIX 2 – Code in code

